90w universal for laptops

P/N: ES1004

# CAR DC-ADAPTER eSTUFF

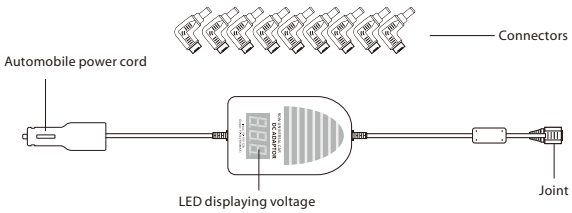
## Product specifications

• Input: 11-15V 12A.
• Output: 15-24V ⎓ 6A(MAX) 90W.

## Product features

• Support all major laptop brands.
• Control and switch voltage automaticly.
• Display to show the current voltage.
• Input 11-15V car charging.
• Nice and compact design.
• Antistatic safety design.
• Made of environmental material.
• Chip to control over temperature, current and voltage protection.

## Diagram of function



## Connector specifications

| No | Output voltage | Range voltage | Output current (max) | Connectors spec. | Replacement |
|---|---|---|---|---|---|
| A | 19V | 18.2-19.5V | 4.74A | ф4.8*1.7*10.7 mm DC-F | **HP/COMPAQ:** 18.5V/2.7A, 18.5V/3.5A,18.5V/3.8A, 18.5V/4.5A, 18.5V/4.9A; **DELTA:** 19V/2.64A; **ASUS:** 19V/2.64A; **NEC:** 19V/2.64A etc. |
| B | 15V | 14.2-15.5V | 6A | ф6.3*3.0*10.7 mm | **TOSHIBA:** 15V/3A, 15V/4A, 15V/5A, 15V/6A, 15V/8A; **NEC:** 15V/6A etc. |
| D | 19V | 18.2-19.5V | 4.74A | ф5.5*2.5*10.7 mm DC-F | **IBM:** 19V/4.2A; DELL: 19V/3.16A, 19V/3.42A; **COMPAQ/HP:** 18.5V/4.9A, 19V/4.9A; **DELTA:** 19V/2.64A; **TOSHIBA:** 19V/3.16A, 19V/3.42A, 19V/4.74A; **NEC:** 19V/2.64A, 19V/3.16A; **LITEON:** 19V/3.16A, 19V/3.42A, 19V/3.95A, 19V/4.74A; **GATEWAY:** 19V/3.16A, 19V/3.42A, 19V/3.68A, 19V/4.74A; **ASUS:** 19V/4.74A; **LS:** 20V/3.25A etc. |
| E | 16V | 15.2-16.5V | 5A | ф5.5*2.5*10.7 mm DC-F | **IBM:** 16V/2.2A, 16V/3.36A, 16V/3.5A, 16V/4.5A etc. |
| H | 19.5V | 18.7-20.5V | 4.5A | ф6.0*4.3*10.7 mm pin1.0 | **SONY:** 19.5V/2.7A, 19.5V/3A, 19.5V/4.1A, 19.5V/4.7A, 19.5V/5.13A, 19.5V/6.15A ; **FUJITSU:** 19V/3.16A, 19V/3.69A, 19V/4.22A etc. |
| I | 19V | 18.2-19.5V | 4.74A | ф5.5*1.7*10.7 mm DC-F | **TOSHIBA:** 19V/3.95A; **ACER:** 19V/3.42A; **DELTA:** 20V/3.5A etc. |
| J | 19.5V | 18.7-20.0V | 4.62A | ф7.4*5.0*12.5 mm pin0.6 | **DELL:** 19.5V/3.34A, 19.5V/4.62A etc. |
| M | 20V | 19.2-20.5V | 4.5A | ф7.9*12 ф9.5 mm | **IBM/LENOVO:** 20V/4.5A, 20V/3.25A etc. |
| Q | 18.5V | 17.7-19.0V | 4.9A | ф7.4*5.0*12.5 mm PIN 0.6 | **HP/COMPAQ:** 18.5V/3.5A, 18.5V/4.9A etc. |

Above brands are original patent.